

[Designation of Document] Claims

[Claim 1]

A disk device comprising:

a recording medium;

a rotating portion which rotates the recording medium;

a head portion which carries out at least any one of reproducing and recording a signal from and on the recording medium;

an actuator portion which supports the head portion and can be turned around a shaft bearing portion as a turning center in a radius direction of the recording medium;

a ramp portion which holds a part of the actuator portion on the occasion of retracting the head portion of the actuator portion;

a circuit substrate portion which carries out at least any one of transmission and reception of a signal to and from at least the head portion and the actuator portion;

an upper side chassis; and

a lower side chassis,

wherein each of the shaft bearing portion of the actuator portion, the ramp portion and the circuit substrate portion has fastening portions on both sides thereof in a perpendicular direction to the recording medium, the actuator portion, the ramp portion and the circuit substrate portions being fixed to the upper side chassis and the lower side chassis.

[Claim 2]

The disk device of Claim 1, wherein the ramp portion has a ramp block portion which holds a part of the actuator portion, and a ramp post portion which is disposed on the fastening portion.

[Claim 3]

The disk device of Claim 2, wherein the ramp block portion and the ramp post portion are formed integrally.

[Claim 4]

The disk device of Claim 1, wherein the circuit substrate portion has a FPC portion on which an electrically conductive pattern is formed, and a FPC post portion which passes through the FPC portion and

the fastening portion is disposed on the FPC post portion.

[Claim 5]

The disk device of Claim 4, comprising a positioning member which determines a relative positional relation of the ramp post portion and the FPC post portion.

[Claim 6]

The disk device of Claim 4, wherein the circuit substrate portion has an amplification circuit portion which amplifies an output from the head portion.

[Claim 7]

The disk device of Claim 2, wherein the ramp post portion is of a shape having at least two circular cylindrical portions

with different radiuses each other and at least one step portion between the circular cylindrical portions, and when, among at least the two circular cylindrical portions, the ramp block portion is fitted in the circular cylindrical portion on the side of the upper side chassis against the step portion and the ramp post portion is fastened to the upper side chassis by use of the fastening portion, the ramp block portion is sandwiched by the upper side chassis and the step portion.

[Claim 8]

The disk device of Claim 4, wherein the FPC post portion is of a shape having at least two circular cylindrical portions with different radiuses each other and at least one step portion between the circular cylindrical portions, and the step portion of the FPC post portion is fixed to the FPC portion.

[Claim 9]

The disk device of Claim 8, wherein the FPC post portion is solder-fixed to a ground line formed on the FPC portion.

[Claim 10]

The disk device of Claim 5, comprising a wiring body having an electrically conductive portion for carrying out at least any one of reception and transmission of an electric signal from and to a rotating portion, at an end portion,

wherein the FPC portion has an electrically conductive portion for carrying out at least any one of transmission and reception of an electric signal to and from the head portion

and the actuator portion, and a connecting portion for contacting the electrically conductive portion of the wiring body, and

the positioning member has a front edge portion which is sandwiched by the FPC portion for pressing the connecting portion of the FPC portion in a direction of the electrically conductive portion of the wiring body, and

the connecting portion of the FPC portion is brought into contact with the electrically conductive portion of the wiring body by pressing force by the front edge portion of the positioning member, whereby, the connecting portion of the FPC portion and the electrically conductive portion of the wiring body are electrically connected.

[Claim 11]

The disk device of Claim 10, wherein the actuator portion, the positioning member and the FPC portion are attached to the upper side chassis and

the rotating portion and the wiring body are attached to the lower side chassis and,

by assembling the upper side chassis and the lower side chassis, the connecting portion of the FPC portion and the electrically conductive portion of the wiring body are brought into contact with each other by pressing force of the front edge portion of the positioning member and thereby, connected electrically.

[Claim 12]

An electronic equipment comprising the disk device of Claim 1.

[Claim 13]

The electronic equipment of Claim 12, wherein a control section for controlling the disk device is disposed on the side of the electronic equipment.

[Claim 14]

The electronic equipment of Claim 12, wherein a surface of the upper side chassis or the lower side chassis of the disk device is attached to the electronic equipment.